Fusion3

F200 3D Printer

MAINTENANCE:
SCRUB PAD REPLACEMENT

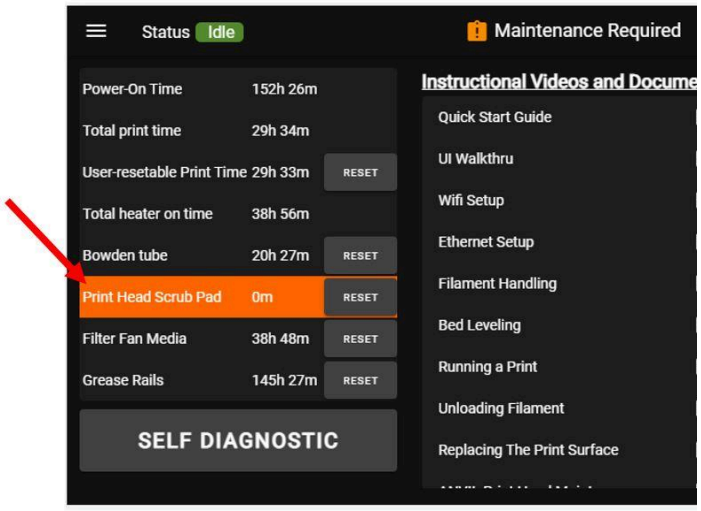
Revision 7/1/2025

PRINT HEAD SCRUB PAD REPLACEMENT

The print head scrub pad is used to clean the print head before the nozzle offset is calibrated. If the print head is not clean enough, this process may fail or generate the wrong result. So it's important to replace the scrub pad regularly to keep your printer working smoothly.

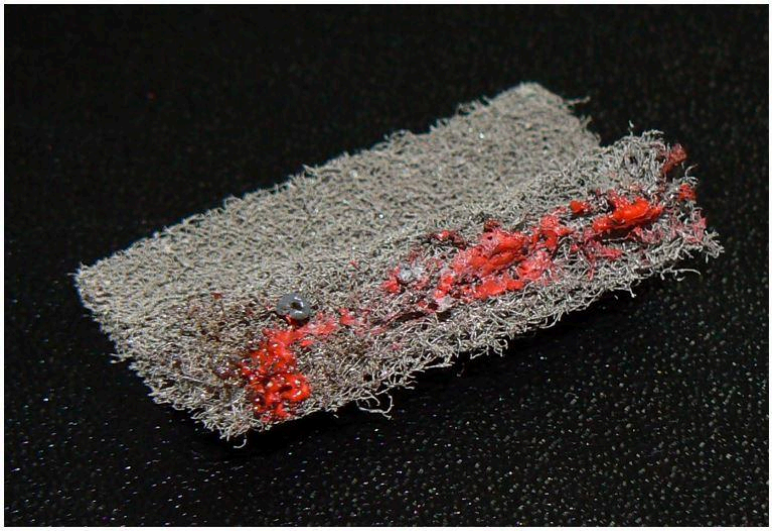
WHEN TO SERVICE

The on-board maintenance counters & reminders will prompt you when it is time to service the extruder.



You can also replace the scrubber any time you notice it has become:

- Significantly damaged so that it no longer scrubs the nozzle
- Significantly dirty or full of debris so that the nozzle leaves the scrubber with debris attached

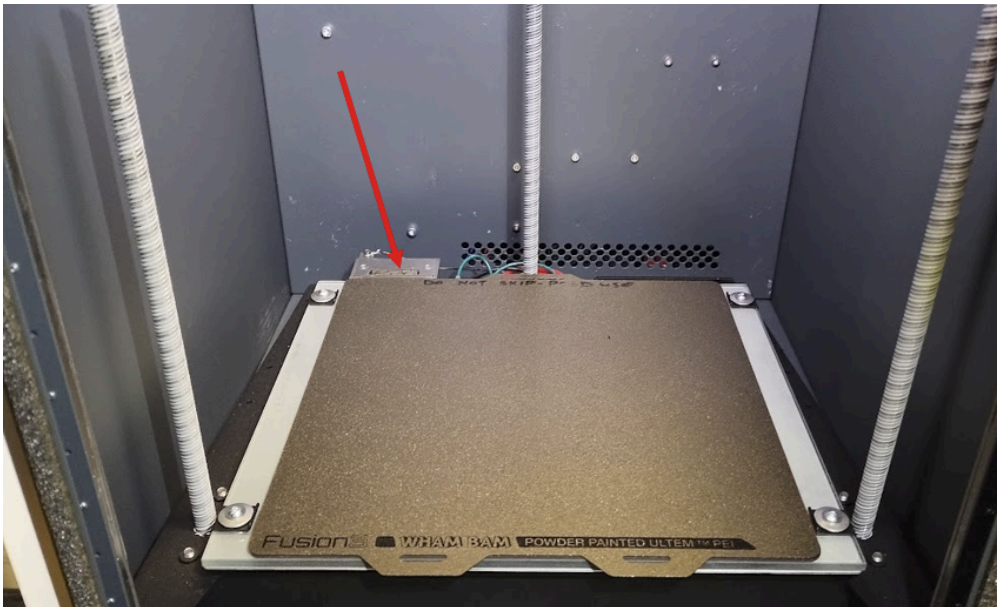


If either of these happen you may see error messages saying the nozzle offset calibration failed, or lots of retries, and/or your first layer height will be dramatically wrong.

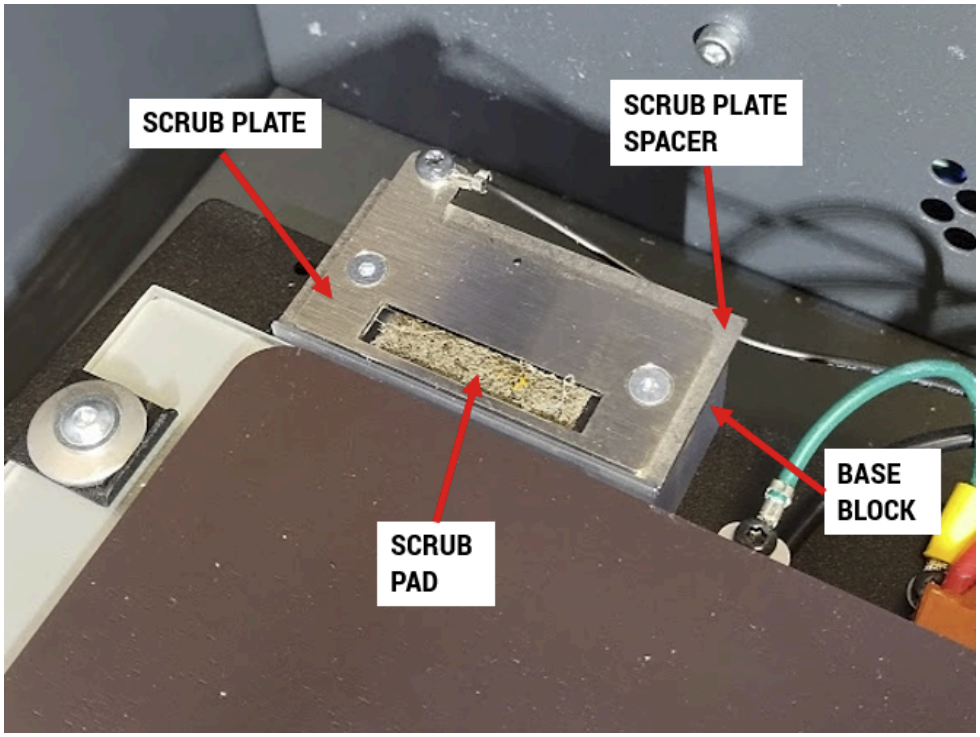
Remember to reset the scrubber replacement timer if you replace it outside of the normal maintenance schedule.

HOW TO REPLACE

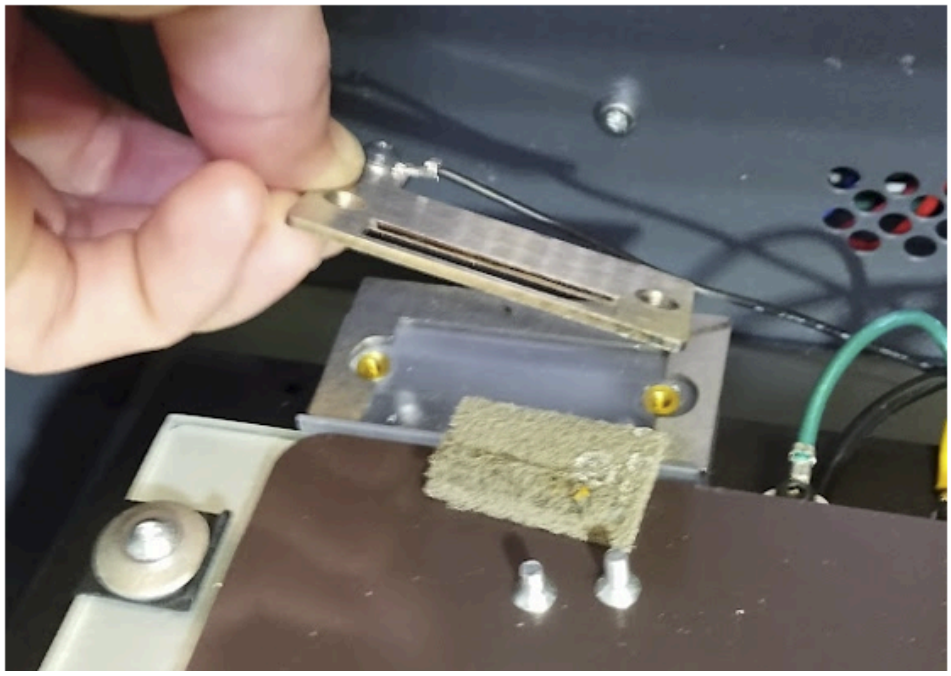
The scrub pad is located on the rear left corner of the Z axis assembly.



The scrub plate assembly consists of a number of components:

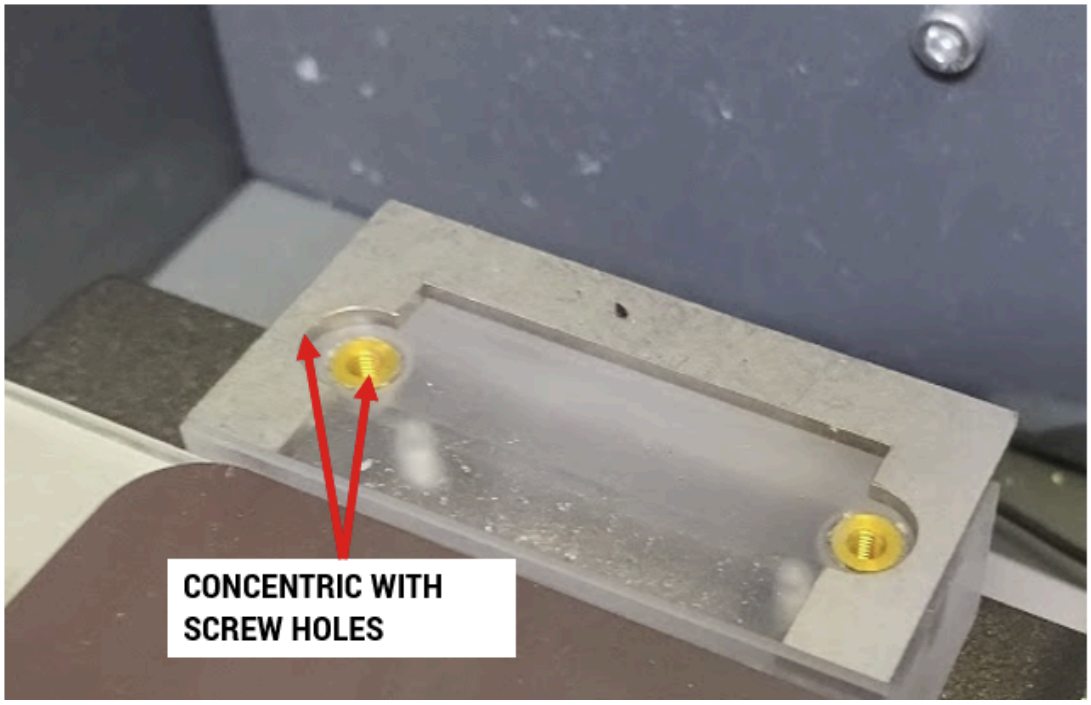


1. Your printer should be idle and cold (bed & print head).
2. Move the Z axis to the bottom, either by hand or using the jog controls on the *Control* screen.
3. Remove the 2x M3 FHCS that hold the scrub plate. You can leave the wire attached.

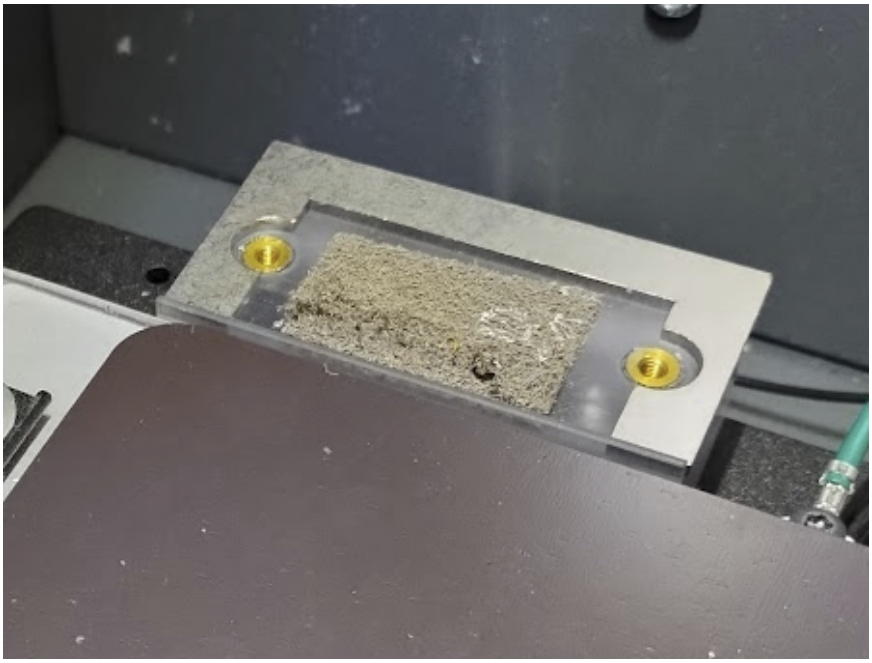


4. Remove and discard the scrub pad.
5. Make sure the area underneath the scrub pad/plate is clear of debris. Brush it off as needed. You want the assembly to sit flat and square when the screws are tight and debris can interfere with this.

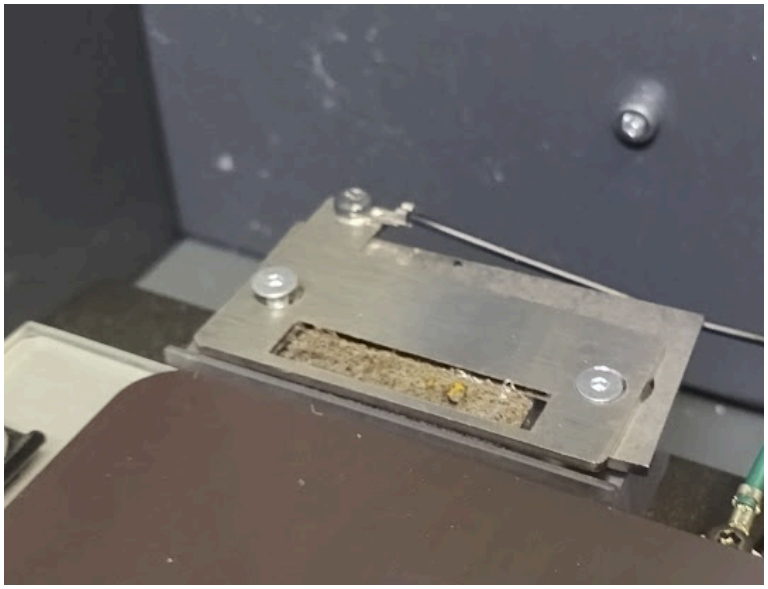
6. Position the spacer so that the circular cutouts are concentric with the holes in the base block.



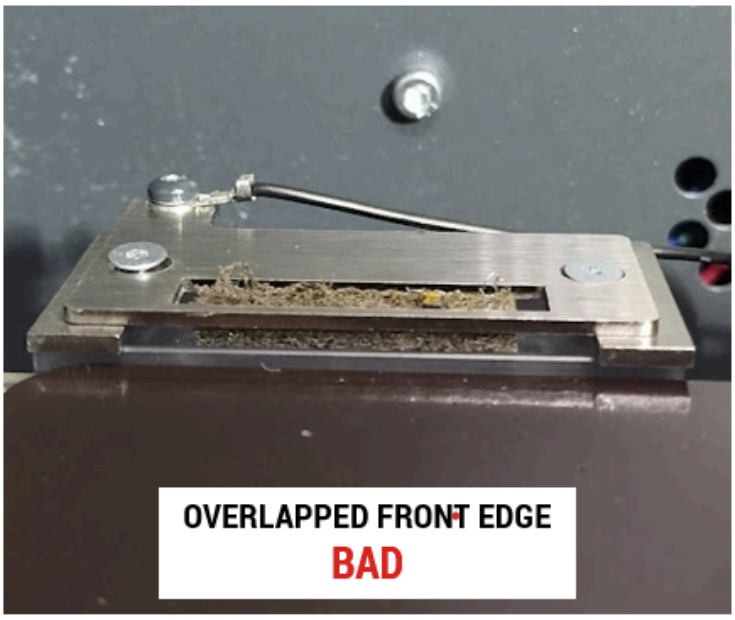
7. Position the scrub pad in the cutout as shown.

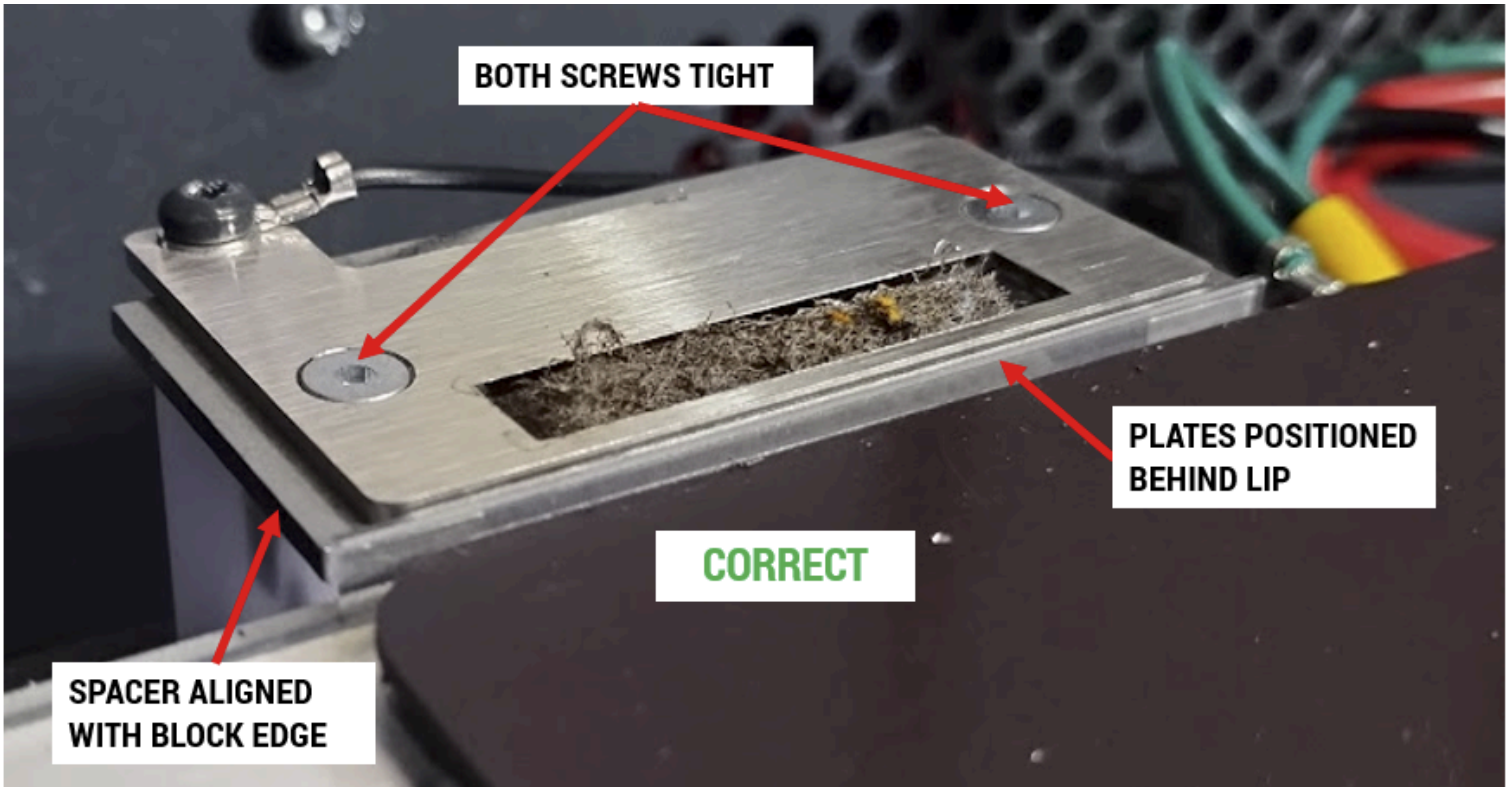


8. Stack the scrub plate on top of the spacer and pad, and thread the screws into the tool plate so that they've grabbed, but you can still slide things around.



9. Make sure:
    a. The front edge of the scrub pad is under the front edge of the scrub plate, so it's held in place.
    b. The spacer sticks out evenly on both sides and the back.
    c. The leading edges of the spacer and scrub plate are not sitting on top of the base block lip.

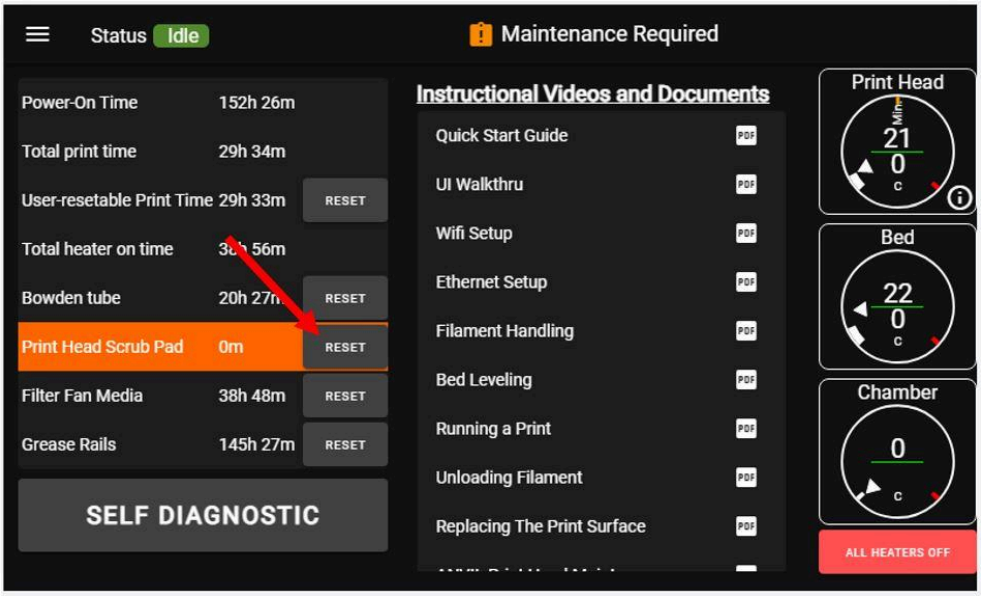




10. Tighten the screws firmly.

IMPORTANT: Improper tightening of the screws can cause incorrect function of the nozzle offset & bed probe systems.

11. Reset the maintenance timer when you're done.


Status Idle
Maintenance Required
Power-On Time 152h 26m
Total print time 29h 34m
User-resetable Print Time 29h 33m RESET
Total heater on time
Bowden tube 20h 27m RESET
Print Head Scrub Pad 0m RESET
Filter Fan Media 38h 48m RESET
Grease Rails 145h 27m RESET
SELF DIAGNOSTIC
Instructional Videos and Documents
Quick Start Guide
UI Walkthru
Wifi Setup
Ethernet Setup
Filament Handling
Bed Leveling
Running a Print
Unloading Filament
Replacing The Print Surface
Print Head
Min
21
0
C
Bed
22
0
C
Chamber
0
C
ALL HEATERS OFF